

HIGH-DENSITY RADIO ACCESS SYSTEM

ABSTRACT

The present invention provides a high-density radio access system comprising an access point controller having a master connection handler and a sector quality of service handler, one or more multi-link controllers communicably coupled to the access point controller, one or more radio transceivers communicably coupled to each multi-link controller, a combiner communicably coupled to the one or more transceivers for each multi-link controller, and an omni directional antenna communicably coupled to the combiner. The present invention provides asymmetric allocation of resources, dynamic allocation of resources, load balancing in a multi-sector, high-density environment, and QoS leveling with categorization per cell, per sector, per system.

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